

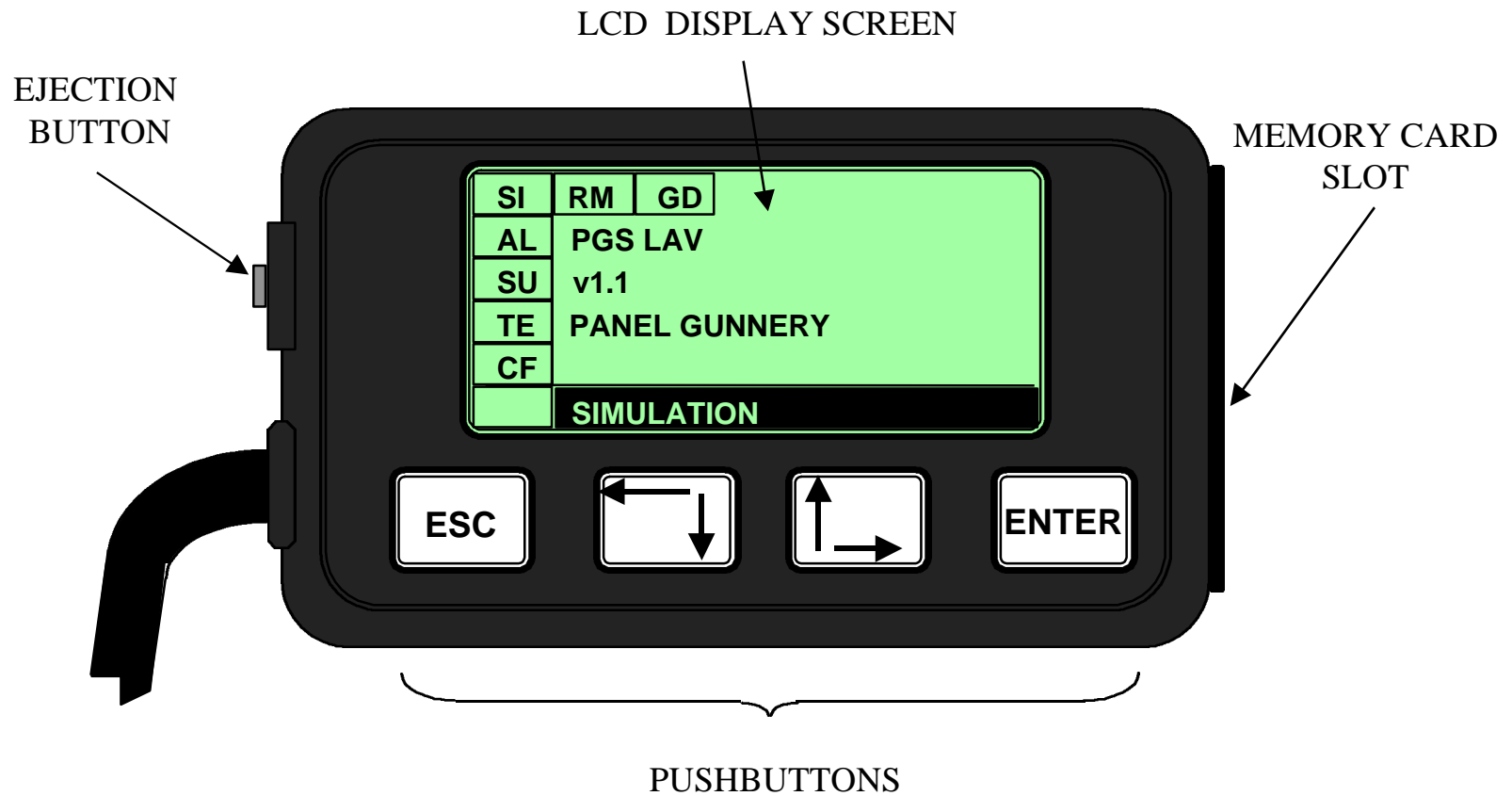
# **REASON**

- **To achieve realistic and effective training with PGS, LAV-25 crews must be able to correctly start, align, and verify alignment of PGS to the LAV-25's turret weapons.**

# **TRAINING OBJECTIVE**

- **Given an operational LAV-25 with PGS installed and pre-mission checks and boresighting completed, the crew will demonstrate the following tasks:**
  - **Conduct system start-up IAW TM 08594A-12&P**
  - **Conduct system alignment IAW TM 08594A-12&P**
  - **Perform alignment verification**

# CONTROL PANEL



# **CONTROL PANEL FUNCTIONS**

- **Monitor ammunition and ammunition upload**
- **Presents results: numerical or graphical**
- **System alignment**
- **BIT and error presentation**
- **Controller functions**
- **Data storage on TDRS memory card**

# CONTROL PANEL MENU

SUBFUNCTION  
GROUP

MAIN  
FUNCTION  
GROUP

<b>SI</b>	<b>RM</b>	<b>GD</b>
<b>AL</b>	<b>PGS</b>	
<b>SU</b>	<b>LAV V1.1</b>	
<b>TE</b>	<b>PANEL GUNNERY</b>	
<b>CF</b>		
	<b>SIMULATION</b>	

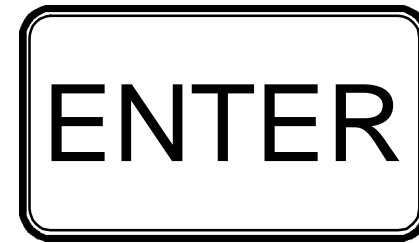
TEXT AREA

SELECTION TITLE

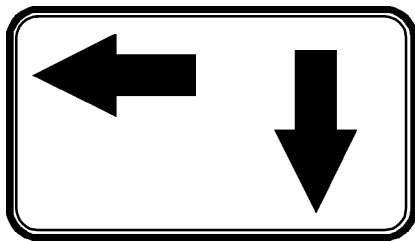
# **PUSHBUTTON FUNCTIONS**



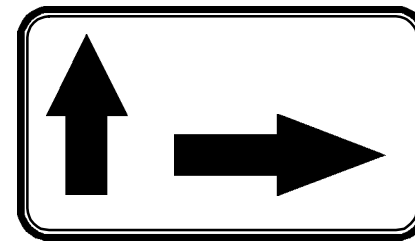
**Aborts menu**  
**Inhibits function or selection**



**Access to menus**  
**Saves or accepts data**



**Moves cursor down or left**  
**Decreases values for data**

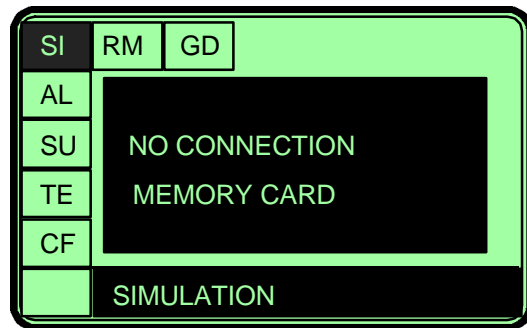


**Moves cursor up or right**  
**Increases values for data**

# START UP AND BIT INDICATIONS

- To start up PGS, turn vehicle **MASTER SWITCH** and all turret power **ON**
- **BIT** performed at power up and during system operation

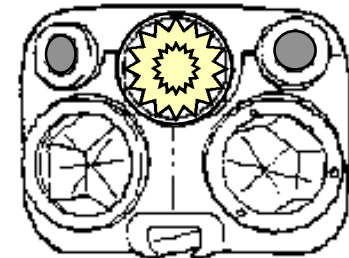
CONTROL PANEL



VEHICLE INTERCOM



HIT INDICATORS



“SYSTEM ERROR,  
CHECK THE CONTROL PANEL”

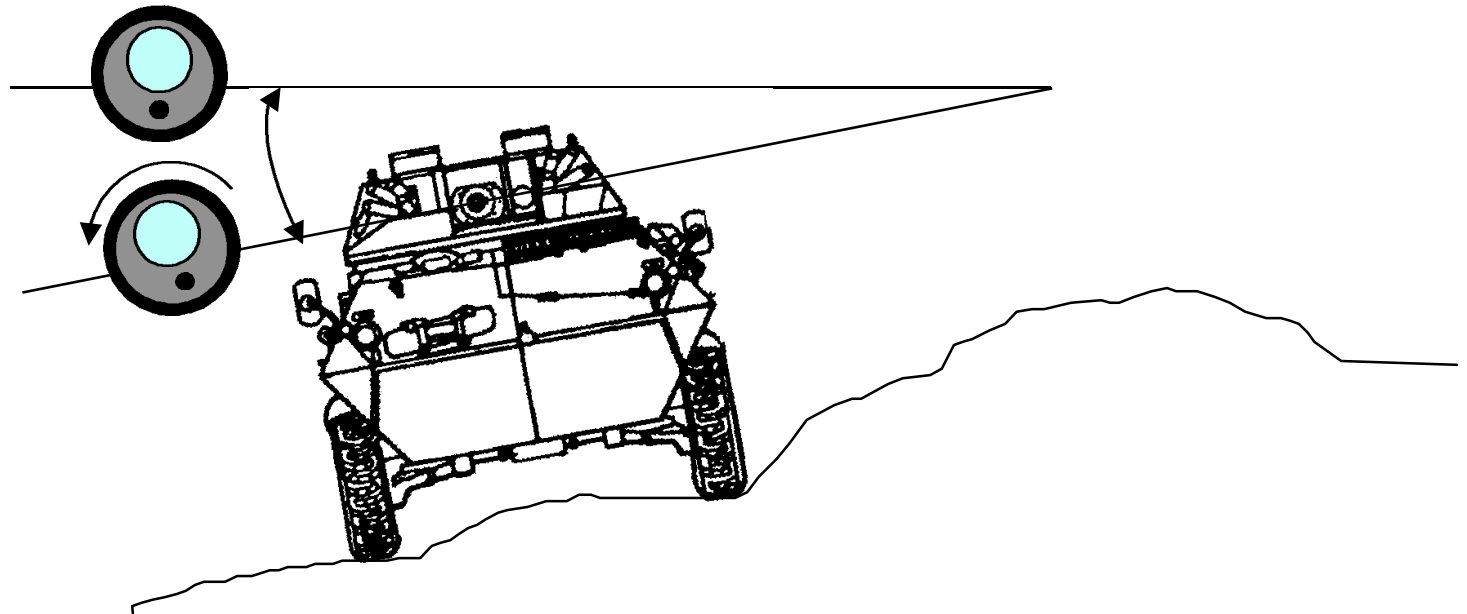
# **ALIGNMENT**

- **Alignment is the process where PGS is aligned to the LAV-25's turret weapons.**
- **Alignments**
  - **Cant alignment**
  - **Laser alignment**
  - **TBOS gunner alignment**
  - **TBOS commander alignment**
  - **Thermal sight alignment**



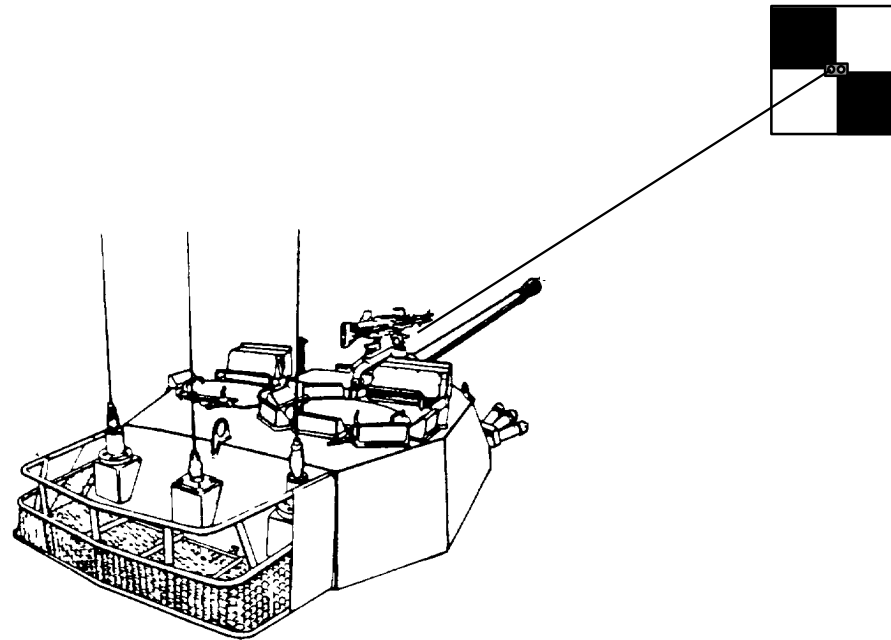
# CANT ALIGNMENT

- Adjustment of the transceiver unit to match the actual trunnion cant of the vehicle.



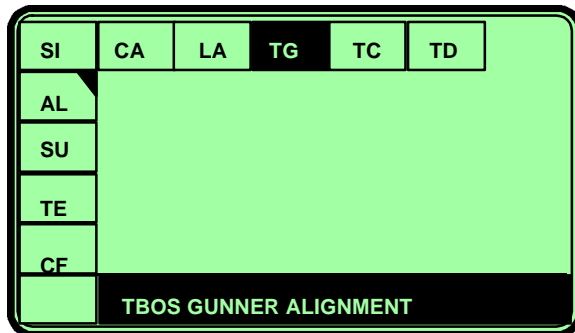
# LASER ALIGNMENT

- **Alignment of the transceiver unit to the 25 mm and coax weapon system to vehicle fire control system.**

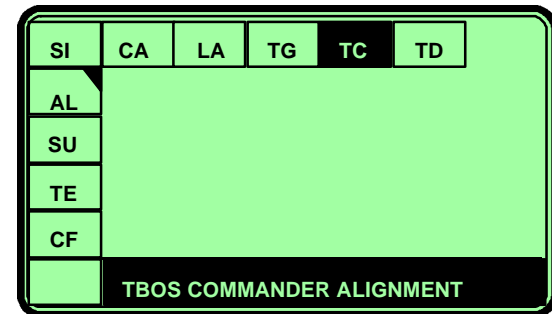


# TBOS ALIGNMENT

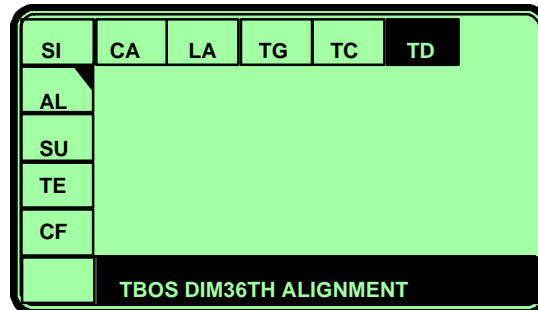
- Alignment of the TBOS systems to LAV-25's day and thermal sights.



**Gunner TBOS**

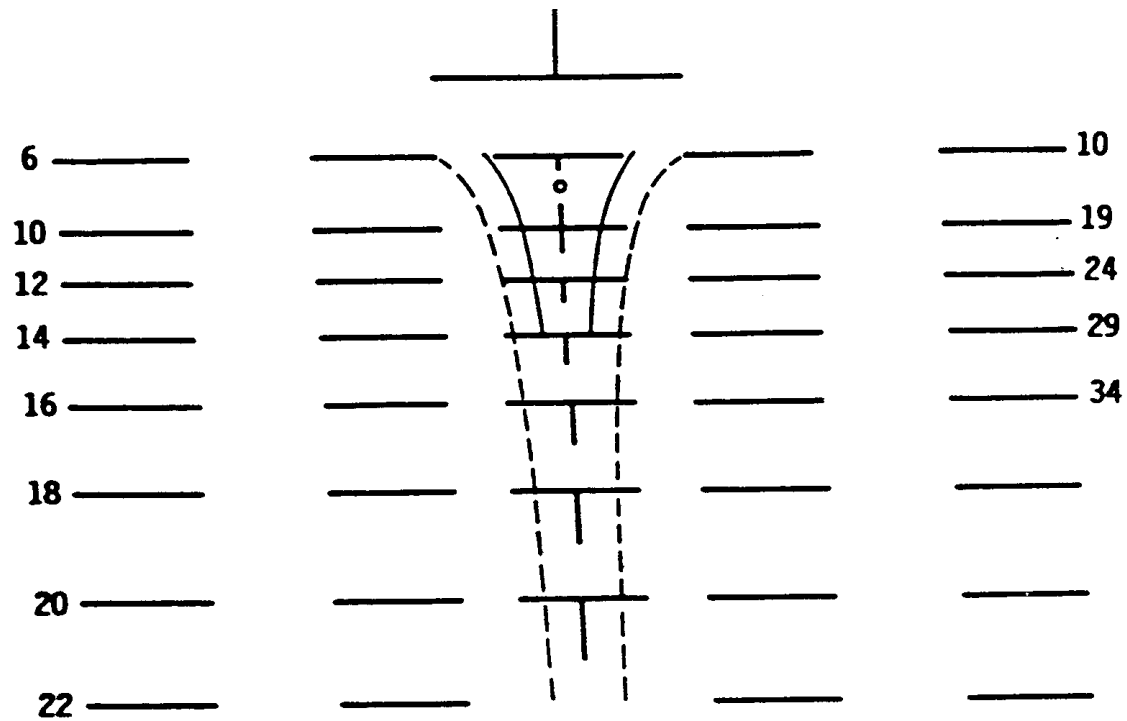


**Commander TBOS**



**Thermal sight**

# TBOS ALIGNMENT



# TBOS ALIGNMENT (CONT)



ROTATION ALIGNMENT  
TEE



TBOS ALIGNMENT  
DOT

# **SUMMARY**

- **Startup procedures**
- **System alignment**
- **Alignment verification**

## **CLOSING STATEMENT**

- **To achieve the desired training result with PGS, you must be able to correctly conduct startup, system alignment, and alignment verification of PGS to the LAV-25 turret weapons.**